## PATENT ABSTRACTS OF JAPAN

(11)Publication number:

11-273861

(43)Date of publication of application: 08.10.1999

(51)Int.CI.

H05B 33/14

C09K 11/06 C09K 11/06

(21)Application number: 10-076041

(71)Applicant: ASAHI GLASS CO LTD

(22)Date of filing:

24.03.1998

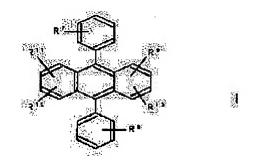
(72)Inventor: TERASONO SHINJI

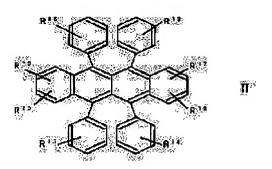
**ASARI GORO** 

TAKAHASHI AKIRA

## (54) ORGANIC ELECTROLUMINESCENT ELEMENT (57) Abstract:

PROBLEM TO BE SOLVED: To improve luminous efficiency and realize stable light emission over a long term by including a predetermined quantity of one or more compounds from among 9, 10-diphenylanthracene and rubrene compounds in a luminescent layer. SOLUTION: One or more compounds of 0.01-30 mol.% selected from among a group comprising 9,10diphenylanthracene compounds expressed by formula I and rubrene compounds expressed by formula II are included in a luminescent layer. In the formula I and II, R7-R20 each independently represents a hydrogen atom, halogen atom, alkyl group, alkoxy group, aryl group, aryloxy group, acyl group or aralkyl group. A part of hydrogen atoms of these groups may be replaced by halogen atoms, and an oxygen atom may be inserted in between carbon-carbon combination. By using those compounds, voltage rise and luminescence degradation can be suppressed in the continuous driving of a luminescent layer using an 8hydroxyguinoline complex.





## **LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

. [Kind of final disposal of application other than the examiner's decision of rejection or application convert d r gistration]

[Date of final disposal for application]

[Patent number]